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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/638,858	08/15/2000	Goran Rune	2380-163	1139

7590 04/19/2005

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EXAMINER	
HO, CHUONG T	
ART UNIT	**PAPER NUMBER**
2664	

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/638,858	RUNE, GORAN	
	Examiner	Art Unit	
	CHUONG T HO	2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *23 November 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-18* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

1. The amendment filed 11/23/04 have been entered and made of record.

2. Applicant's amendment filed 10/13/04 with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

3. Claims 1-18 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Wallentin et al. (U.S.Patent No. 6,834,191 B2)

In the claims 1, 3, 5, see figure 1, Wallentin et al. discloses plurality radio network controllers (RNCs) including a first radio network controller (RNC1), the plurality radio network controllers (RNCs) being situated to establish one or more overlapping routing areas (see col. 3, lines 1-3), each overlapping routing are comprising a cell controlled by the first radio network controller (see col. 4, lines 39-41) and at least one cell controlled by another of the plurality of radio network controllers (RNCs) (see col. 4, lines 39-41, figure1); comprising:
Wherein for signaling the first radio network controllers (RNC1) 22 need only store network addresses for: any of the plurality radio network controller (RNCs)

which controls a cell in any overlapping routing area (see col. 7, lines 48-50, the paging controller is one of the RNCs, particular radio network controller (RNC1) 22. As described below in connection with FIG.3A, the paging control node of the present invention includes a paging control node paging table 100, see TABLE 1 col. 8, lines 7-25, see col. 8, lines 35-38, the fourth column of TABLE 1 has a value indicative of the number of number RNCs (other than the paging control node) which control cells in the MCA) (see col. 12, lines 8-10, the paging message of event 5-6 includes header 4A-1 which identifies the node to which the paging message is destined, e.g., radio network controller (RNC2) 22);
Any of the plurality radio network controllers which functions as a serving radio network controller (RNC or SRNC, e.g. RNC2) for a connection for which the first radio network controller (other than SRNC, e.g. RNC1) functions as a drift radio network controller (see col. 4, lines 11-19, the identity of the routing area where the mobile station is currently located is stored in the RNC which controls the connection to the mobile station, known as the Serving RNC or SRNC. For limiting the above-described ping-pong effect, the mobile station's routing area may also include cells that are controlled by RNCs other the RNC which currently in control of the packet switched connection to the mobile station (i.e, other than the SRNC).

5. In the claims 2, 4, 6, 8, 10, 12, Wallentin et al. a signaling network connecting the plural radio network controllers (RNCs), wherein one of the plural radio network controllers (RNCs) is a serving radio network controller which controls a connection between a core network (see figure 1) and a user

equipment (mobile station), wherein when the user equipment moves from a frist routing area to a second routing area (moveover), the second routing area being an overlapping routing area in which a second radio network controller (RNC2) also controls cells, the first network radio network controller (RNC1) sends, in a signaling message to a serving radio network controller, both (1) an address of the first radio network controller, and (2) the address of the second radio network controller, thereby enabling the serving radio network controller to page the user equipment throughout the overlapping routing area (see col. 14, lines 43-58).

6. In the claims 13, 14, 15, 16, 17, 18, Wallentin et al. discloses the first radio network controller performs the signaling (see col. 14, lines 43-58) when a user equipment unit performs a routing area update (location update, see col. 11, lines 20-21) and wherein the first radio network controller includes the stored network addresses in the signaling (see col. 8, lines 7-25, see col. 8, lines 35-38).

7. In the claims 7, 9, 11, see figure 1, Wallentin et al. discloses plurality radio network controllers (RNCs) including a first radio network controller (RNC1), the plurality radio network controllers (RNCs) being situated to establish one or more overlapping routing areas (see col. 3, lines 1-3), each overlapping routing are comprising a cell controlled by the first radio network controller (see col. 4, lines 39-41) and at least one cell controlled by another of the plurality of radio network controllers (RNCs) (see col. 4, lines 39-41, figure1); comprising: Wherein for signaling a routing area update request message (see col. 11, lines 20-21);

Wherein for signaling the first radio network controllers (RNC1) 22 need only store network addresses for: any of the plurality radio network controller (RNCs) which controls a cell in any overlapping routing area (see col. 7, lines 48-50, the paging controller is one of the RNCs, particular radio network controller (RNC1) 22. As described below in connection with FIG.3A, the paging control node of the present invention includes a paging control node paging table 100, see TABLE 1 col. 8, lines 7-25, see col. 8, lines 35-38, the fourth column of TABLE 1 has a value indicative of the number of number RNCs (other than the paging control node) which control cells in the MCA) (see col. 12, lines 8-10, the paging message of event 5-6 includes header 4A-1 which identifies the node to which the paging message is destined, e.g., radio network controller (RNC2) 22);

Any of the plurality radio network controllers which functions as a serving radio network controller (RNC or SRNC, e.g. RNC2) for a connection for which the first radio network controller (other than SRNC, e.g. RNC1) functions as a drift radio network controller (see col. 4, lines 11-19, the identity of the routing area where the mobile station is currently located is stored in the RNC which controls the connection to the mobile station, known as the Serving RNC or SRNC. For limiting the above-described ping-pong effect, the mobile station's routing area may also include cells that are controlled by RNCs other the RNC which currently in control of the packet switched connection to the mobile station (i.e, other than the SRNC).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG T HO whose telephone number is (571) 272-3133. The examiner can normally be reached on 8:00 am to 4:00 pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

04/08/05

WELLINGTON CHIN
SUPERVISORY PATENT EXAMINER